

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269316

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20884.9 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

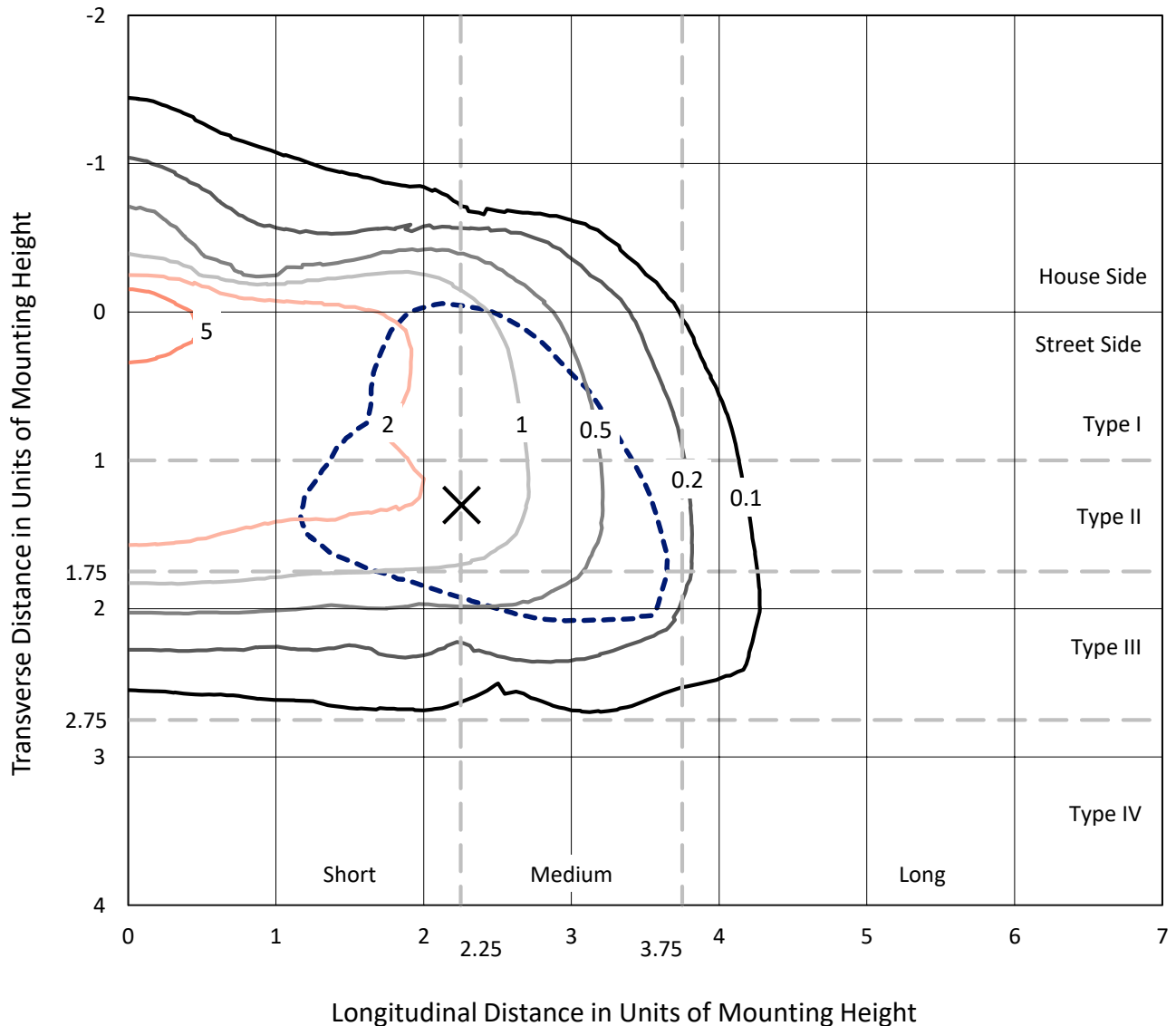


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Iso-Footcandle Lines of Horizontal Illumination

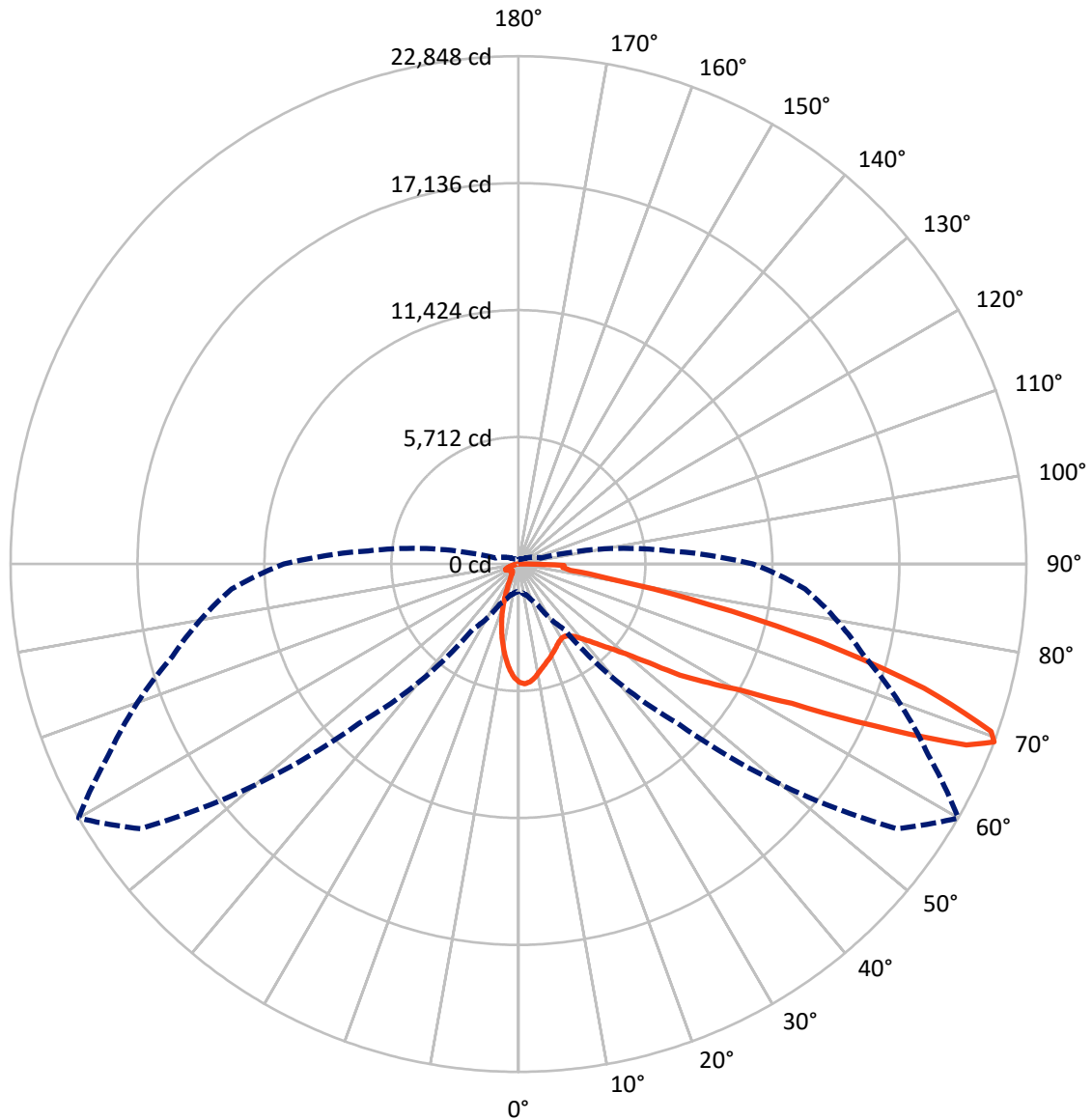
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.3	0.0	2971.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17913.7	0.0	17913.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	20884.9	0.0	20884.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	2.2
10°-20°	958.7	4.6
20°-30°	1221.6	5.8
30°-40°	1679.3	8.0
40°-50°	2724.9	13.0
50°-60°	4370.0	20.9
60°-70°	5816.2	27.8
70°-80°	3140.3	15.0
80°-90°	524.0	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20884.9	100.0
0°-180°	20884.9	100.0

Coefficient of Utilization



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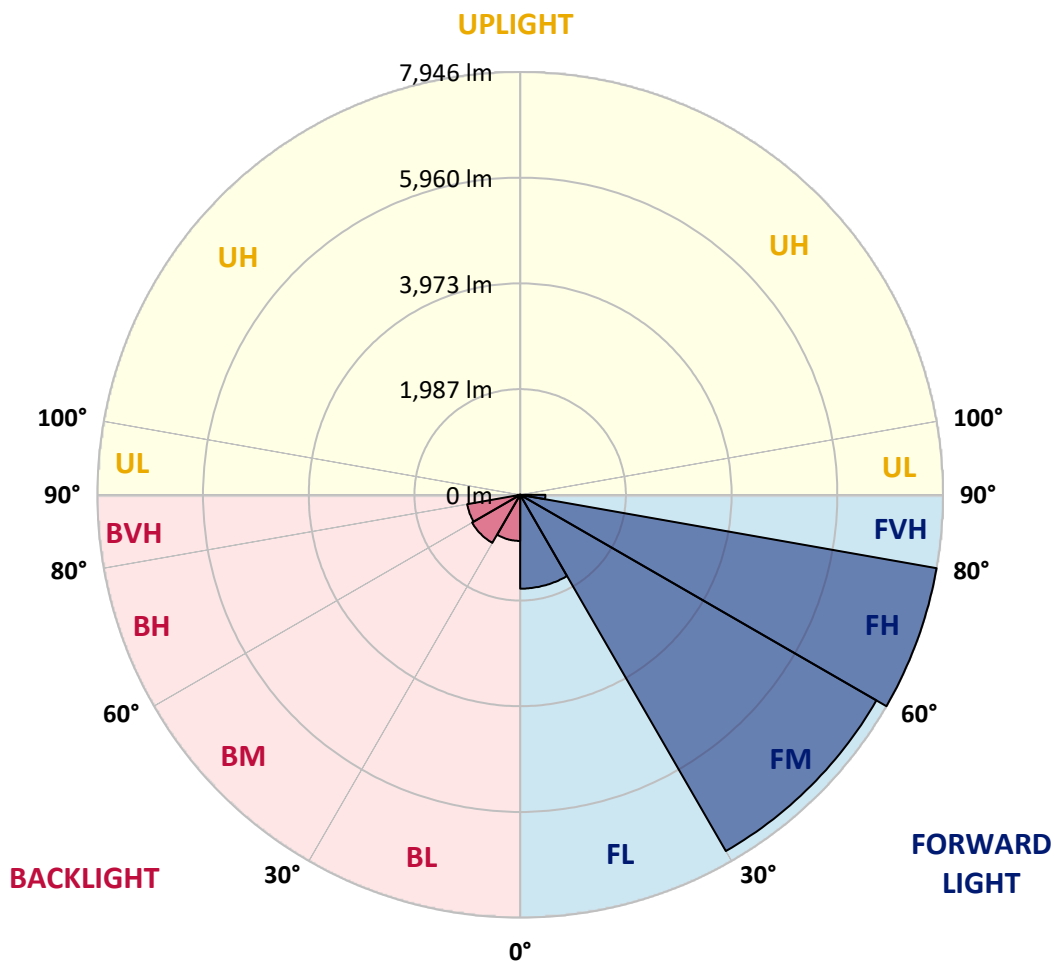
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1763.4	8.4			
FM	(30°-60°)	7730.4	37.0			
FH	(60°-80°)	7946.3	38.0			G4/12000
FVH	(80°-90°)	473.5	2.3			G3/500
BL	(0°-30°)	866.8	4.2	B2/1000		
BM	(30°-60°)	1043.9	5.0	B2/2500		
BH	(60°-80°)	1010.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	50.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7
2.5°	5430.8	5442.9	5437.8	5434.7	5443.9	5429.7	5400.5	5391.4	5377.3	5343.9	5287.6
5°	5227.0	5263.3	5261.3	5288.5	5333.9	5346.1	5332.9	5334.9	5308.7	5267.3	5173.5
7.5°	4874.8	4890.1	4898.1	4957.6	5040.3	5107.0	5163.4	5181.6	5169.4	5134.2	5013.1
10°	4511.6	4523.8	4543.0	4612.5	4717.4	4809.3	4916.2	4977.8	5004.0	4998.0	4862.7
12.5°	4199.9	4212.1	4237.2	4315.9	4441.0	4554.0	4709.5	4786.1	4848.6	4886.1	4740.6
15°	3920.5	3946.8	3970.9	4061.7	4201.9	4350.2	4525.8	4622.7	4719.5	4803.2	4632.7
17.5°	3702.5	3728.8	3742.9	3825.6	3975.0	4156.5	4362.3	4476.3	4597.4	4734.6	4525.8
20°	3576.4	3588.5	3582.5	3629.0	3763.1	3955.7	4199.9	4332.0	4478.4	4670.1	4418.9
22.5°	3541.2	3542.1	3520.0	3514.9	3601.7	3764.1	4026.5	4186.8	4366.4	4627.7	4327.0
25°	3626.8	3623.9	3563.3	3513.9	3523.1	3617.8	3858.8	4045.5	4272.6	4618.6	4256.3
27.5°	3817.5	3826.7	3736.9	3644.1	3552.3	3549.3	3731.7	3928.6	4196.0	4660.0	4226.2
30°	4085.0	4100.0	4004.3	3886.2	3713.7	3571.4	3682.4	3858.8	4148.6	4745.7	4221.1
32.5°	4377.5	4393.6	4320.9	4196.9	3970.9	3708.7	3716.6	3865.0	4146.4	4865.8	4255.5
35°	4689.2	4707.4	4670.1	4565.1	4313.9	3961.9	3847.8	3962.9	4212.1	5049.5	4347.3
37.5°	5037.2	5065.5	5075.7	4975.7	4707.4	4295.8	4062.8	4148.6	4360.4	5304.6	4515.7
40°	5538.7	5578.0	5575.1	5431.8	5158.3	4746.7	4394.7	4416.8	4591.3	5645.7	4785.1
42.5°	6499.1	6507.2	6256.1	5944.3	5654.7	5220.9	4786.1	4767.9	4910.1	6077.5	5181.6
45°	7720.9	7687.6	7128.7	6526.4	6173.3	5765.7	5295.6	5206.8	5314.7	6604.1	5677.9
47.5°	8734.8	8658.1	7951.9	7120.7	6722.0	6357.9	5893.8	5738.5	5798.0	7201.4	6319.5
50°	9087.0	9029.5	8444.2	7614.9	7241.6	7080.4	6630.3	6410.3	6426.6	7913.6	7071.2
52.5°	9011.3	9003.2	8612.7	7940.8	7727.9	7838.9	7673.5	7375.9	7218.5	8704.5	7882.3
55°	8832.7	8849.8	8708.6	8320.2	8283.8	8571.4	9036.5	8816.5	8327.2	9502.6	8720.7
57.5°	8212.2	8256.6	8567.3	8797.5	9178.7	9606.5	10134.0	10071.5	9520.7	10365.2	9717.4
60°	6616.1	6719.1	7552.4	8704.5	10099.9	11437.6	11673.7	11528.4	10751.5	11435.6	11034.1
62.5°	4635.8	4742.7	5733.4	7536.3	9948.5	13505.7	14425.9	13799.4	12519.0	13012.5	12738.1
65°	2481.8	2533.3	3290.0	5228.9	8398.9	13932.5	18448.2	17494.9	15317.7	14956.5	14195.8
67.5°	1369.0	1397.4	1686.8	2640.2	5379.3	12269.0	21010.7	21731.1	18815.4	16250.9	13930.5
69°	1237.9	1264.2	1453.7	1999.5	3599.7	10144.2	20760.5	22847.9	20348.9	16122.8	12949.8
70°	1210.6	1234.9	1405.4	1843.2	2913.7	8361.6	19922.3	22562.4	20714.1	15663.7	12094.4
72.5°	1089.6	1115.9	1281.3	1655.5	2489.9	4168.7	15780.7	19076.8	18806.3	13581.5	9173.8
75°	1016.0	1040.1	1320.6	1621.3	2383.9	2638.2	10403.5	14059.6	13824.6	9500.6	4946.4
77.5°	434.8	432.9	612.4	1372.2	2419.2	2554.5	5590.2	8783.3	8013.5	4060.7	1420.5
80°	290.5	285.5	290.5	403.6	2218.5	2568.7	2928.7	4458.2	3367.7	1035.0	700.1
82.5°	250.2	246.1	255.3	246.1	779.9	2931.8	2489.9	2370.8	1601.0	588.2	347.0
85°	168.5	161.4	219.9	221.0	368.2	2604.9	2804.7	2002.6	1295.4	349.1	171.4
87.5°	80.7	78.7	128.1	156.3	216.0	1058.4	3146.7	2052.1	1306.5	178.6	81.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7
2.5°	5270.4	5228.9	5188.6	5140.2	5089.7	5033.3	5004.9	4976.8	4969.8	4961.6	4933.4
5°	5125.1	5066.6	4965.7	4854.7	4737.8	4623.7	4536.9	4482.5	4441.0	4419.9	4382.6
7.5°	4937.4	4851.7	4675.0	4483.4	4286.7	4107.1	3951.7	3853.9	3761.1	3717.6	3668.3
10°	4758.9	4630.8	4356.3	4073.9	3791.3	3520.0	3264.7	3084.2	2923.8	2834.0	2770.4
12.5°	4605.5	4429.9	4049.6	3667.2	3279.8	2893.4	2511.1	2210.4	1959.3	1827.1	1759.5
15°	4456.2	4244.3	3758.1	3272.7	2775.5	2249.7	1747.4	1406.3	1198.6	1115.9	1087.6
17.5°	4320.9	4049.6	3465.5	2875.2	2254.8	1619.3	1174.4	986.7	907.0	879.7	870.6
20°	4174.8	3852.9	3161.9	2459.6	1712.1	1132.0	917.1	834.3	802.0	794.0	790.0
22.5°	4033.5	3659.2	2871.3	2014.7	1229.8	873.7	788.0	753.6	748.6	755.7	755.7
25°	3913.5	3485.7	2557.5	1549.7	902.9	735.4	705.2	697.2	716.3	742.4	747.6
27.5°	3823.6	3343.4	2223.6	1144.0	719.4	639.7	638.6	651.7	699.2	749.5	759.6
30°	3762.1	3208.1	1866.4	825.3	603.3	563.0	579.0	607.3	677.0	748.6	767.7
32.5°	3730.8	3108.3	1494.2	638.6	516.5	494.3	521.6	556.0	624.5	691.1	716.3
35°	3755.1	3034.7	1143.1	532.6	456.0	438.8	467.1	500.4	540.8	568.9	588.2
37.5°	3845.9	3005.4	862.6	477.2	414.7	398.5	420.6	439.9	456.0	464.1	473.1
40°	4041.6	3036.7	691.1	449.0	391.4	371.3	380.3	387.3	397.5	405.6	409.5
42.5°	4330.1	3130.6	619.4	437.8	379.4	350.1	348.1	351.1	364.3	379.4	382.4
45°	4733.6	3296.1	614.4	444.9	373.2	332.9	323.8	327.9	348.1	371.3	375.3
47.5°	5249.2	3548.2	654.8	466.1	378.4	323.8	308.7	313.8	339.0	370.2	375.3
50°	5873.7	3900.4	722.3	497.4	400.6	325.8	303.6	306.7	332.9	367.2	372.3
52.5°	6611.2	4399.7	796.0	527.7	423.7	339.0	307.7	300.7	324.8	355.1	361.2
55°	7431.4	5040.3	871.6	554.9	435.9	355.1	315.8	292.6	309.7	335.0	340.0
57.5°	8438.1	5936.2	1002.8	581.2	443.9	366.1	323.8	284.6	290.5	308.7	312.8
60°	9801.1	7203.4	1233.8	624.5	462.1	370.2	322.9	277.4	271.4	281.4	283.4
62.5°	11434.5	8579.4	1426.6	678.9	492.4	373.2	316.8	272.4	255.3	255.3	257.3
65°	12404.1	8947.7	1319.6	724.4	517.6	370.2	309.7	267.3	243.1	232.0	233.0
67.5°	11581.8	7869.2	1131.0	733.5	516.5	356.2	298.6	258.3	231.0	213.8	212.9
69°	10551.9	6789.7	1046.2	709.2	492.4	337.9	284.6	248.2	221.9	203.7	202.7
70°	9721.5	6130.9	990.7	683.0	466.1	324.8	273.4	239.0	214.9	197.7	195.7
72.5°	7068.1	4017.3	846.5	587.1	384.4	272.4	236.1	209.8	191.7	181.5	179.7
75°	3532.0	1915.8	687.1	476.2	294.6	217.8	193.8	175.6	166.5	164.4	163.4
77.5°	1160.3	877.7	491.4	355.1	218.9	170.5	156.3	143.3	141.3	147.3	145.3
80°	637.5	510.4	311.7	235.0	149.3	125.1	123.1	116.1	119.0	129.1	127.1
82.5°	324.8	265.3	192.6	141.3	100.9	89.8	97.8	93.9	97.8	107.0	105.9
85°	160.3	145.3	122.1	85.8	66.6	57.5	69.6	72.7	74.6	81.7	81.7
87.5°	92.9	85.8	64.6	40.3	33.2	30.3	40.3	39.3	46.4	50.5	49.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)